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(71) Applicant

Burley Appliances Ltd

(Incorporated in the United Kingdom)

Pillings Road, Oakham, Rutland,
Leicestershire, LE15 6QF, United Kingdom

(72) Inventor

Jane Elizabeth Knight

(74) Agent and/or Address for Service

Burley Appliances Ltd

Pillings Road, Oakham, Rutland,
Leicestershire, LE15 6QF, United Kingdom

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US 3975834 A

(58) Field of search

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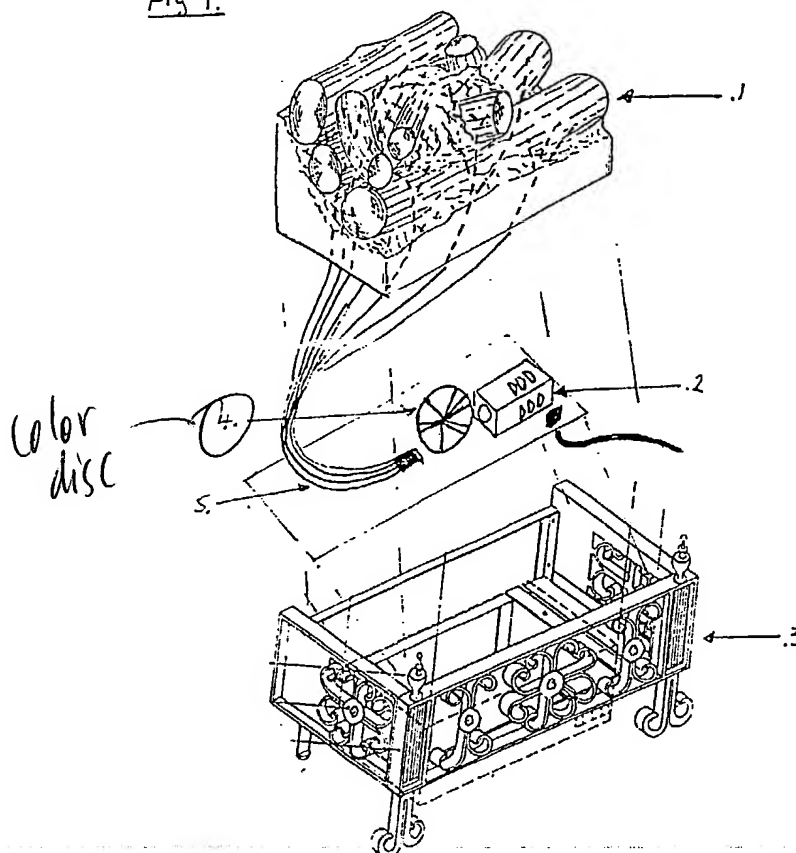
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(54) Lighting effect for electric fires

(57) Fibre optics (5) deliver coloured light to parts of an electric fuel effect fire or heater. This gives the effect of flames, or a changing pattern of light. The light changes colour by filtering through a rotating disc (4) of translucent coloured segments.

The light emitted from the other end of each tail can be seen through a log or coal effect (10). Alternatively the fibres may be set into a panel so that the ends are visible or covered by a translucent or transparent screen.

Fig 1.



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Fig. 1.

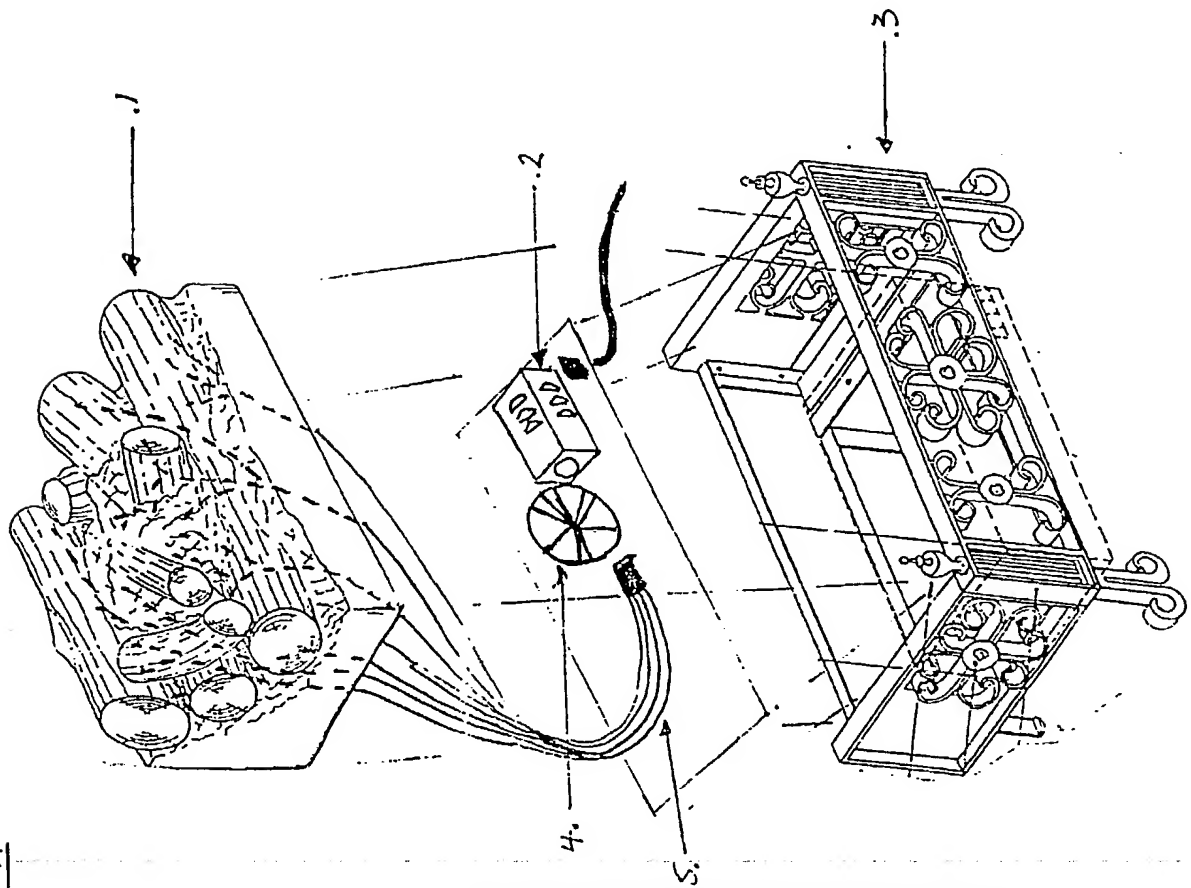
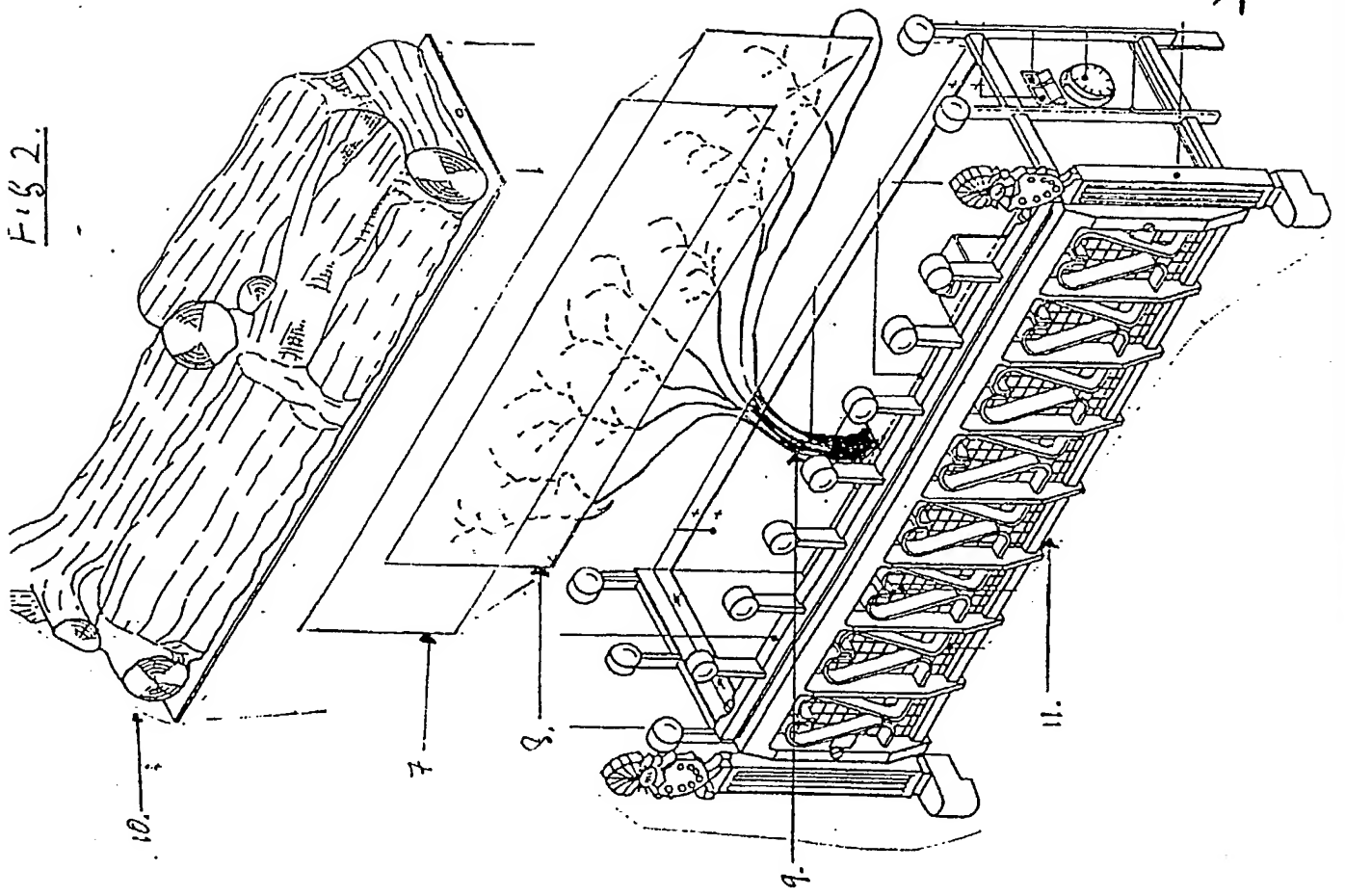


Fig. 2.



LIGHTING EFFECT FOR ELECTRIC FIRES

This invention relates to a new lighting effect for electric fires and heaters.

Electric log effect fires use conventional light bulbs in various forms to produce a simulated flame effect. This is used with plastic or fibre glass logs or coal (which gives the illusion of fire).

This effect is rather repetitive and limits the appliance very often to only one.

According to our invention there are provided a series of fibre optics which deliver light to various parts of an electric fire or heater, to provide a simulated flame effect or pattern of changing colours.

A specific embodiment of the invention will now be described by way of example with reference to the accompanying drawing in which:-

Figure 1.

Shows in perspective, a typical style of fire basket (3). A fibre glass log effect with fibre optics attached beneath, (1 and 5). A light source (2) and a disc made up from different colours (4), which is rotated by a motor or other means.

Figure 2.

Shows in perspective a similar appliance with the fibre optics (9) set into a panel (8) with the ends pushing through. This may in turn have an opaque, translucent or transparent screen (7) in front. The light source and rotating disc are concealed in the basket (11).

In both examples the light source from 2 passes through the coloured disc (4), the coloured light falls upon one end of the bunch of fibre optic tails, (5 or 9).

Due to the light carrying property of fibre optics the coloured light appears at the other end of the tail and can be seen either through the log effect (1) or on the panel (8).

CLAIMS

1. A series of fibre optics which deliver light to various parts of an electric fire or heater to provide a simulated flame effect or pattern of changing colours.
2. As in Claim 1 in addition to existing electric fire lighting methods.
3. The invention in Claim 1 may be used to deliver a pattern of changing colour on a panel on an electric heater with or without the presence of a log or coal effect.

Patents Act 1977**Examiner's report to the Comptroller under
Section 17 (The Search Report)**

Application number

9110922.3

Relevant Technical fields

(i) UK Cl (Edition K) F4W: W57

(ii) Int Cl (Edition 5) F24C 7/00

Search Examiner

B W DENTON

Databases (see over)

(i) UK Patent Office

(ii) ONLINE DATABASES WPI:

Date of Search

8 OCTOBER 1991

Documents considered relevant following a search in respect of claims

1-3

Category (see over)	Identity of document and relevant passages	Relevant to claim(s)
X	US 3975834 (EISENBERG) whole document	1

4

Category	Identity of document and relevant passages	Relevant to claim(s)

Categories of documents

X: Document indicating lack of novelty or of inventive step.

Y: Document indicating lack of inventive step if combined with one or more other documents of the same category.

A: Document indicating technological background and/or state of the art.

P: Document published on or after the declared priority date but before the filing date of the present application.

E: Patent document published on or after, but with priority date earlier than, the filing date of the present application.

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